858 Shipment Information

Functional Group ID=SI

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment Information Transaction Set (858) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the sender with the capability to transmit detailed bill -of-lading, rating, and/or scheduling information pertinent to a shipment. This transaction set can also be used to exchange Government Bills of Lading (GBLs), Commercial Bills of Lading (CBLs), Transportation Control and Movement Documents (TCMDs), and Personal Property Government Bills of Lading (PPGBLs). It may be used by the U.S. Civilian Government, U.S. Department of Defense, and any of their trading partners to exchange information about the shipment of freight, household goods, and passengers. This transaction set fulfills information requirements established by U.S. Government transportation movement rules and regulations.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
5	010	ST	Transaction Set Header	M	1		
Not Used	020	ZC1	Beginning Segment for Data Correction or Change	O	1		
6	030	BX	General Shipment Information	M	1		n1
Not Used	040	BNX	Rail Shipment Information	O	1		
Not Used	050	M3	Release	O	1		
8	060	N9	Reference Identification	O	30		
Not Used	065	CM	Cargo Manifest	O	3		
Not Used	070	Y6	Authentication	O	4		
Not Used	080	Y7	Priority	O	1		
Not Used	090	C3	Currency	O	1		
Not Used	100	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
10	110	G62	Date/Time	O	10		
Not Used	120	PER	Administrative Communications Contact	O	3		
Not Used	130	NA	Cross-Reference Equipment	O	999		
Not Used	140	F9	Origin Station	O	1		
Not Used	150	D9	Destination Station	O	1		
Not Used	160	R1	Route Information (Air)	O	1		
Not Used	170	R2	Route Information	O	13		
Not Used	175	R3	Route Information - Motor	O	13		
Not Used	180	R4	Port or Terminal	O	5		
Not Used	190	MEA	Measurements	O	10		
11	200	H3	Special Handling Instructions	O	20		
Not Used	201	PS	Protective Service Instructions	O	5		
Not Used	210	H6	Special Services	O	6		
Not Used	211	V4	Cargo Location Reference	O	1		

Not Used	212	V5	Vessel Code	O	1	
			LOOP ID - E1			2
Not Used	220	E1	Empty Car Disposition - Pended Destination Consignee	O	1	
Not Used	230	E4	Empty Car Disposition - Pended Destination City	O	1	
Not Used	240	E5	Empty Car Disposition - Pended Destination Route	O	13	
Not Used	245	PI	Price Authority Identification	O	1	
Not Used	250	M1	Insurance	O	1	
Not Used	260	M2	Sales/Delivery Terms	O	1	
Not Used	270	L7	Tariff Reference	O	30	
Not Used	280	NTE	Note/Special Instruction	O	50	
Not Used	290	XH	Pro Forma - B13 Information	O	1	
			LOOP ID - N7			600
Not Used	330	N7	Equipment Details	O	1	
Not Used	331	EM	Equipment Characteristics	O	1	
Not Used	335	NA	Cross-Reference Equipment	O	30	
Not Used	340	M7	Seal Numbers	O	5	
Not Used	350	N5	Equipment Ordered	O	1	
Not Used	360	REF	Reference Identification	O	5	
Not Used	370	IC	Intermodal Chassis Equipment	O	1	
Not Used	375	VC	Motor Vehicle Control	O	21	
Not Used	380	GA	Canadian Grain Information	O	15	
			LOOP ID - E1			2
Not Used	381	E1	Empty Car Disposition - Pended Destination Consignee	O	1	
Not Used	382	E4	Empty Car Disposition - Pended Destination City	O	1	
Not Used	383	E5	Empty Car Disposition - Pended Destination Route	O	13	
Not Used	384	PI	Price Authority Identification	O	1	
			LOOP ID - N1			12
12	390	N1	Name	O	1	
14	400	N2	Additional Name Information	O	2	
15	410	N3	Address Information	O	2	
16	420	N4	Geographic Location	O	1	
Not Used	430	REF	Reference Identification	O	12	
Not Used	440	PER	Administrative Communications Contact	O	3	
Not Used	445	H3	Special Handling Instructions	O	5	
			LOOP ID - S5			999
Not Used	450	S5	Stop-off Details	O	1	
Not Used	460	G62	Date/Time	O	6	
Not Used	470	N9	Reference Identification	O	10	
Not Used	480	H6	Special Services	O	6	
			LOOP ID - N1			5
Not Used	490	N1	Name	O	1	
Not Used	500	N2	Additional Name Information	O	2	

| Page | Pos. | Seg. | | Req. | | Loop | Notes and |
No.	No.	ID	Name	Des.	Max.Use	Repeat	Comments
Not Used	510	N3	Address Information	O	2		
Not Used	520	N4	Geographic Location	O	1		
Not Used	530	REF	Reference Identification	O	12		
Not Used	540	PER	Administrative Communications Contact	O	3		
			LOOP ID - FA1			>1	
17	550	FA1	Type of Financial Accounting Data	O	1		
18	560	FA2	Accounting Data	M	>1		
Not Used	570	L10	Weight	O	1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			>1	
19	010	HL	Hierarchical Level	M	1		
Not Used	020	N7	Equipment Details	O	1		
Not Used	030	NA	Cross-Reference Equipment	O	1		
Not Used	040	M7	Seal Numbers	O	5		
Not Used	050	N5	Equipment Ordered	O	1		
Not Used	060	REF	Reference Identification	O	5		
Not Used	070	IC	Intermodal Chassis Equipment	O	1		
Not Used	080	VC	Motor Vehicle Control	O	24		
Not Used	090	L7	Tariff Reference	O	10		
21	095	SL1	Tariff Reference	O	1		
23	100	N9	Reference Identification	O	10		
25	105	H3	Special Handling Instructions	O	1		
Not Used	110	X1	Export License	O	6		
Not Used	120	X2	Import License	O	1		
26	130	L5	Description, Marks and Numbers	O	10		
Not Used	131	PER	Administrative Communications Contact	O	5		
Not Used	132	LH2	Hazardous Classification Information	O	6		
Not Used	133	LHR	Hazardous Material Identifying Reference Numbers	O	1		
Not Used	134	LH6	Hazardous Certification	O	5		
Not Used	137	Y7	Priority	O	2		
Not Used	138	G62	Date/Time	O	10		
Not Used	140	NTE	Note/Special Instruction	O	100		
Not Used	142	LP	Load Planning	O	1		
Not Used	143	AXL	Vehicle Axle Measurements	O	12		
			LOOP ID - L0			20	
28	145	L0	Line Item - Quantity and Weight	O	1		
30	150	L1	Rate and Charges	O	20		
33	160	MEA	Measurements	O	10		
			LOOP ID - LH1			100	
36	170	LH1	Hazardous Identification Information	O	1		
38	180	LH2	Hazardous Classification Information	O	4		n2
40	190	LH3	Hazardous Material Shipping Name	O	12		

Not Used	191	LFH	Freeform Hazardous Material Information	O	20		
Not Used	192	LEP	EPA Required Data	O	3		
Not Used	200	LH4	Canadian Dangerous Requirements	O	1		
Not Used	201	LHT	Transborder Hazardous Requirements	O	3		
Not Used	210	LHR	Hazardous Material Identifying Reference Numbers	O	10		n3
Not Used	215	PER	Administrative Communications Contact	O	5		
Not Used	220	LHE	Empty Equipment Hazardous Material Information	O	1		n4
			LOOP ID - FA1			>1	
Not Used	230	FA1	Type of Financial Accounting Data	O	1		
Not Used	240	FA2	Accounting Data	M	>1		
Not Used	250	L10	Weight	O	1		
			LOOP ID - NM1			4	
Not Used	260	NM1	Individual or Organizational Name	O	1		
Not Used	270	N3	Address Information	O	2		
Not Used	280	N4	Geographic Location	O	1		
			LOOP ID - N1			4	
41	290	N1	Name	O	1		
Not Used	300	N2	Additional Name Information	O	2		
Not Used	310	N3	Address Information	O	2		
Not Used	320	N4	Geographic Location	O	1		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
42	010	L3	Total Weight and Charges	O	1		
44	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.
3. All receivers of the EDI transactions covering empty tank cars which last contained hazardous commodities must be able to add the constant words: RESIDUE: LAST CONTAINED ahead of the contents of LHE01 and add the constant: RESIDUE following the contents of the LHE02 when printing paper documents.
4. When used in the hazardous material loop, the segment will identify the various certification, exemption or shipper-related numbers that relate to the specific line item of the shipment that are in addition to the UN/UA number reference in the LH1 segment.

Segment:	**ST** **Transaction Set Header**		

Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	**Transaction Set Identifier Code**	M ID 3/3

Code uniquely identifying a Transaction Set

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M	ST02	329	**Transaction Set Control Number**	M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

			Segment:	**BX** General Shipment Information

Segment: **BX** General Shipment Information
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identification numbers and other basic shipment data
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	BX01	353	**Transaction Set Purpose Code**	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			01 Cancellation	
			04 Change	
M	BX02	91	**Transportation Method/Type Code**	M ID 1/2
			Code specifying the method or type of transportation for the shipment	
			AF Air Freight	
M	BX03	146	**Shipment Method of Payment**	M ID 2/2
			Code identifying payment terms for transportation charges	
			CD Collect on Delivery	
			PP Prepaid (by Seller)	
			TP Third Party Pay	
Must Use	BX04	145	**Shipment Identification Number**	O AN 1/30
			Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	
Must Use	BX05	140	**Standard Carrier Alpha Code**	O ID 2/4
			Standard Carrier Alpha Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	BX06	188	**Weight Unit Code**	O ID 1/1
			Code specifying the weight unit	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	BX07	147	**Shipment Qualifier**	O ID 1/1
			Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time	
			C Consolidated Shipment	
Not Used	BX08	226	**Section Seven Code**	O ID 1/1

Code indicating applicability of section seven option (if not transmitted assume not in effect)

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | BX09 | 195 | **Capacity Load Code** | O | ID 1/1 |

Code specifying type of capacity load

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | BX10 | 160 | **Status Report Request Code** | O | ID 1/1 |

Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | BX11 | 501 | **Customs Documentation Handling Code** | O | ID 2/2 |

Code defining method of handling for documentation

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | BX12 | 199 | **Confidential Billing Request Code** | O | ID 1/1 |

Code used by the shipper to request that the carrier inhibit origin identification information from the invoice transaction sets and/or rate and charges from waybill documents and transaction sets when shipment moves under confidential contract rates

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | BX13 | 714 | **Goods and Services Tax Reason Code** | O | ID 1/1 |

Code required to identify the reason for a 0% rated goods and services tax

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | BX14 | 346 | **Application Type** | O | ID 2/2 |

Code identifying an application

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**N9** Reference Identification
Position:	060
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	30
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:	1 At least one of N902 or N903 is required.
	2 If N906 is present, then N905 is required.
	3 If either C04003 or C04004 is present, then the other is required.
	4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 N906 reflects the time zone which the time reflects.
	2 N907 contains data relating to the value cited in N902.
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N901	128	**Reference Identification Qualifier**	M ID 2/3

Code qualifying the Reference Identification

    GC   Government Contract Number

    PO   Purchase Order Number

    ZZ   Mutually Defined

	Ref. Des.	Data Element	Name	Attributes
	N902	127	**Reference Identification**	X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	Ref. Des.	Data Element	Name	Attributes
Not Used	N903	369	**Free-form Description**	X AN 1/45

Free-form descriptive text

	Ref. Des.	Data Element	Name	Attributes
Not Used	N904	373	**Date**	O DT 8/8

Date expressed as CCYYMMDD

	Ref. Des.	Data Element	Name	Attributes
Not Used	N905	337	**Time**	X TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

	Ref. Des.	Data Element	Name	Attributes
Not Used	N906	623	**Time Code**	O ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	N907	C040	Reference Identifier	O	

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used	C04001	128	Reference Identification Qualifier	M	ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C04002	127	Reference Identification	M	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	C04003	128	Reference Identification Qualifier	X	ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C04004	127	Reference Identification	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C04006	127	Reference Identification	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	Segment:	**G62** Date/Time
	Position:	110
	Loop:	
	Level:	Heading
	Usage:	Optional (Must Use)
	Max Use:	10
	Purpose:	To specify pertinent dates and times
	Syntax Notes:	1 At least one of G6201 or G6203 is required.
		2 If either G6201 or G6202 is present, then the other is required.
		3 If either G6203 or G6204 is present, then the other is required.
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	G6201	432	**Date Qualifier**	X	ID 2/2
			Code specifying type of date		
			86 Actual Pickup Date		
Must Use	G6202	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		
	G6203	176	**Time Qualifier**	X	ID 1/2
			Code specifying the reported time		
			8 Actual Pickup Time		
	G6204	337	**Time**	X	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
Not Used	G6205	623	**Time Code**	O	ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:	**H3** Special Handling Instructions	
Position:	200	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	20	
Purpose:	To specify special handling instructions in coded or free-form format	
Syntax Notes:	1 Only one of H301 or H302 may be present.	
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
	H301	**152**	**Special Handling Code**	**X**	**ID 2/3**
			Code specifying special transportation handling instructions		
			ZZZ Mutually Defined		
Not Used	**H302**	**153**	**Special Handling Description**	**X**	**AN 2/30**
			Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate		
Not Used	**H303**	**241**	**Protective Service Code**	**O**	**ID 1/4**
			Code specifying perishable protective service- rail carriers only		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**H304**	**242**	**Vent Instruction Code**	**O**	**ID 1/7**
			Code specifying vent instructions		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**H305**	**257**	**Tariff Application Code**	**O**	**ID 1/1**
			Code indicating to which traffic a tariff applies		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:	**N1** Name			
Position:	390			
Loop:	N1 Optional (Must Use)			
Level:	Heading			
Usage:	Optional (Must Use)			
Max Use:	1			
Purpose:	To identify a party by type of organization, name, and code			

Syntax Notes:
1. At least one of N102 or N103 is required.
2. If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments:
1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N101	98	**Entity Identifier Code**	M	ID 2/3

Code identifying an organizational entity, a physical location, property or an individual

BT	Bill-to-Party	
CN	Consignee	
SF	Ship From	
SH	Shipper	
ST	Ship To	

	Ref. Des.	Data Element	Name	Attributes	
	N102	93	**Name**	X	AN 1/60

Free-form name

	Ref. Des.	Data Element	Name	Attributes	
	N103	66	**Identification Code Qualifier**	X	ID 1/2

Code designating the system/method of code structure used for Identification Code (67)

1	D-U-N-S Number, Dun & Bradstreet
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
10	Department of Defense Activity Address Code (DODAAC)
33	Commercial and Government Entity (CAGE)

	Ref. Des.	Data Element	Name	Attributes	
	N104	67	**Identification Code**	X	AN 2/80

Code identifying a party or other code

	Ref. Des.	Data Element	Name	Attributes	
Not Used	N105	706	**Entity Relationship Code**	O	ID 2/2

Code describing entity relationship

Refer to 004010 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes	
Not Used	N106	98	**Entity Identifier Code**	O	ID 2/3

Code identifying an organizational entity, a physical location, property or an individual

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**N2** Additional Name Information			
Position:	400			
Loop:	N1	Optional (Must Use)		
Level:	Heading			
Usage:	Optional			
Max Use:	2			
Purpose:	To specify additional names or those longer than 35 characters in length			
Syntax Notes:				
Semantic Notes:				
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N201	93	Name	M AN 1/60
			Free-form name	
Not Used	N202	93	Name	O AN 1/60
			Free-form name	

Segment:	**N3** Address Information		
Position:	410		
Loop:	N1 Optional (Must Use)		
Level:	Heading		
Usage:	Optional		
Max Use:	2		
Purpose:	To specify the location of the named party		
Syntax Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N301	166	**Address Information**	M AN 1/55
			Address information	
	N302	166	**Address Information**	O AN 1/55
			Address information	

Segment:		**FA1** Type of Financial Accounting Data			
Position:		550			
Loop:		FA1 Optional (Must Use)			
Level:		Heading			
Usage:		Optional (Must Use)			
Max Use:		1			
Purpose:		To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation			
Syntax Notes:					
Semantic Notes:		**1** FA101 Identifies the organization controlling the assignment of financial accounting information.			
		2 FA102 Identifies the purpose of the accounting allowance or charge information.			
Comments:					

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	FA101	559	**Agency Qualifier Code**	M	ID 2/2

Code identifying the agency assigning the code values

DF	Department of Defense (DoD)
DN	Department of the Navy
DX	United States Marine Corps
DY	Department of Air Force
DZ	Department of Army

Not Used	FA102	1300	**Service, Promotion, Allowance, or Charge Code**	O	ID 4/4

Code identifying the service, promotion, allowance, or charge

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	FA103	248	**Allowance or Charge Indicator**	O	ID 1/1

Code which indicates an allowance or charge for the service specified

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**FA2** Accounting Data		
Position:	560		
Loop:	FA1	Optional (Must Use)	
Level:	Heading		
Usage:	Mandatory		
Max Use:	>1		
Purpose:	To specify the detailed accounting data		
Syntax Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	FA201	1196	**Breakdown Structure Detail Code**	M ID 2/2

Codes identifying details relating to a reporting breakdown structure tree

For current accounting data on the web, go to http://www.lmi.org/dtedi/ [Instructions: At that web location, select the IC navigator button. Choose the 'ICs Completed' menu and select the 'FA2 Appropriation Guide for Electronic Data Interchange (EDI) Payment of Transportation Service at DFAS-IN'. That guide is available in PDF format.]

	18	Funds Appropriation	

	Ref. Des.	Data Element	Name	Attributes
M	FA202	1195	**Financial Information Code**	M AN 1/80

Code representing financial accounting information

Segment:	**HL** Hierarchical Level
Position:	010
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:	
Semantic Notes:	

Comments:

1   The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.

2   HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3   HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4   HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

5   HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	HL01	628	**Hierarchical ID Number**	M	AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
Not Used	HL02	734	**Hierarchical Parent ID Number**	O	AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
M	HL03	735	**Hierarchical Level Code**	M	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		

9	Line Detail
41	Product Level
P	Pack
SS	Services
UT	Unit or Lot

Not Used   **HL04**   **736**   **Hierarchical Child Code**   **O ID 1/1**

Code indicating if there are hierarchical child data segments subordinate to the level being described

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	SL1 Tariff Reference		
Position:	095		
Loop:	HL Mandatory		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service		
Syntax Notes:	1	At least one of SL103 or SL104 is required.	
Semantic Notes:	1	SL101 is the service requested by the customer.	
	2	SL105 is the effective date.	
	3	SL106 is the service provided by the carrier.	
Comments:	1	Scale and commodity codes are proprietary codes maintained by the carrier.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SL101	284	**Service Level Code**	M ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier	
			DF Deferred Service	
			NF Next Flight Out	
			ON Overnight	
			SC Second Day Air	
Not Used	SL102	171	**Tariff Number**	O AN 1/7
			Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	
Not Used	SL103	22	**Commodity Code**	X AN 1/30
			Code describing a commodity or group of commodities	
Not Used	SL104	320	**Scale**	X AN 1/10
			A carrier-maintained reference used to further identify a schedule of rates within a tariff	
Not Used	SL105	373	**Date**	O DT 8/8
			Date expressed as CCYYMMDD	
Not Used	SL106	284	**Service Level Code**	O ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	SL107	146	**Shipment Method of Payment**	O ID 2/2
			Code identifying payment terms for transportation charges	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	SL108	982	**Data Source Code**	O ID 2/2

Code identifying source of data

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **SL109**   **210**   **International/Domestic Code**   **O**   **ID 1/1**

Code indicating international or domestic shipment

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**N9** Reference Identification	
Position:	100	
Loop:	HL	Mandatory
Level:	Detail	
Usage:	Optional	
Max Use:	10	
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier	
Syntax Notes:	1	At least one of N902 or N903 is required.
	2	If N906 is present, then N905 is required.
	3	If either C04003 or C04004 is present, then the other is required.
	4	If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1	N906 reflects the time zone which the time reflects.
	2	N907 contains data relating to the value cited in N902.
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N901	128	**Reference Identification Qualifier**	**M ID 2/3**

Code qualifying the Reference Identification

	3Q	Food and Drug Administration (FDA) Product Code
	BV	Purchase Order Line Item Identifier (Buyer)
	MF	Manufacturers Part Number
	OZ	Product Number
	PG	Product Group
	PIN	Platform Identification Number
	PO	Purchase Order Number
	Q2	Starting Package Number
	VC	Vendor Contract Number
	XY	Other Unlisted Type of Reference Number

	Ref. Des.	Data Element	Name	Attributes
Must Use	N902	127	**Reference Identification**	**X AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

	N903	369	**Free-form Description**	**X AN 1/45**

Free-form descriptive text

Not Used	N904	373	**Date**	**O DT 8/8**

Date expressed as CCYYMMDD

Not Used	N905	337	**Time**	**X TM 4/8**

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths

(00-99)

Not Used	N906	623	**Time Code**	O	ID 2/2

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	N907	C040	**Reference Identifier**	O	

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used	C04001	128	**Reference Identification Qualifier**	M	ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C04002	127	**Reference Identification**	M	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	C04003	128	**Reference Identification Qualifier**	X	ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C04004	127	**Reference Identification**	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Not Used	C04005	128	**Reference Identification Qualifier**	X	ID 2/3

Code qualifying the Reference Identification

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C04006	127	**Reference Identification**	X	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	**H3** Special Handling Instructions	
Position:	105	
Loop:	HL	Mandatory
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify special handling instructions in coded or free-form format	
Syntax Notes:	1 Only one of H301 or H302 may be present.	
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	H301	152	**Special Handling Code**	X	ID 2/3

Code specifying special transportation handling instructions

MRF   Refrigerated

Not Used	H302	153	**Special Handling Description**	X	AN 2/30

Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate

Not Used	H303	241	**Protective Service Code**	O	ID 1/4

Code specifying perishable protective service- rail carriers only

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	H304	242	**Vent Instruction Code**	O	ID 1/7

Code specifying vent instructions

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	H305	257	**Tariff Application Code**	O	ID 1/1

Code indicating to which traffic a tariff applies

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:	**L5** Description, Marks and Numbers
Position:	130
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify the line item in terms of description, quantity, packaging, and marks and numbers
Syntax Notes:	1 If either L503 or L504 is present, then the other is required.
	2 If L507 is present, then L506 is required.
	3 If either L508 or L509 is present, then the other is required.
Semantic Notes:	
Comments:	1 L502 may be used to send quantity information as part of the product description.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Not Used	L501	213	**Lading Line Item Number**	O N0 1/3
			Sequential line number for a lading item	
	L502	79	**Lading Description**	O AN 1/50
			Description of an item as required for rating and billing purposes	
Must Use	L503	22	**Commodity Code**	X AN 1/30
			Code describing a commodity or group of commodities	
Must Use	L504	23	**Commodity Code Qualifier**	X ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
			Z Mutually defined	
Not Used	L505	103	**Packaging Code**	O AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	L506	87	**Marks and Numbers**	X AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
	L507	88	**Marks and Numbers Qualifier**	O ID 1/2
			Code specifying the application or source of Marks and Numbers (87)	
			CA Shipper-Assigned Case Number	
			W Pallet Number	
Not Used	L508	23	**Commodity Code Qualifier**	X ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	L509	22	**Commodity Code**	X AN 1/30

Code describing a commodity or group of commodities

Not Used   **L510**   **595**   **Compartment ID Code**   **O ID 1/1**

Code identifying the compartment in a compartmentalized tank car

Refer to 004010 Data Element Dictionary for acceptable code values.

	Segment:	**L0** Line Item - Quantity and Weight
	Position:	145
	Loop:	L0 Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data
	Syntax Notes:	1 If either L002 or L003 is present, then the other is required.
		2 If either L004 or L005 is present, then the other is required.
		3 If either L006 or L007 is present, then the other is required.
		4 If either L008 or L009 is present, then the other is required.
		5 If L011 is present, then L004 is required.
		6 If either L013 or L015 is present, then the other is required.
	Semantic Notes:	1 L008 is the number of handling units of the line item tendered to the carrier.
		2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
		3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
	Comments:	1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	L001	213	**Lading Line Item Number**	O N0 1/3
			Sequential line number for a lading item	
Not Used	L002	220	**Billed/Rated-as Quantity**	X R 1/11
			Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	
Not Used	L003	221	**Billed/Rated-as Qualifier**	X ID 2/2
			Code identifying the type of quantity or value on which the rate or item pricing is based	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	L004	81	**Weight**	X R 1/10
			Numeric value of weight	
Must Use	L005	187	**Weight Qualifier**	X ID 1/2
			Code defining the type of weight	
			FR Freight Weight	
			PA Pallet Weight	
			Z Mutually Defined	
	L006	183	**Volume**	X R 1/8

			Value of volumetric measure		
	L007	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Code identifying the volume unit		
			E Cubic Feet		
			N Cubic Inches		
Must Use	**L008**	**80**	**Lading Quantity**	**X**	**N0 1/7**
			Number of units (pieces) of the lading commodity		
Must Use	**L009**	**211**	**Packaging Form Code**	**X**	**ID 3/3**
			Code for packaging form of the lading quantity		
			UNT Unit		
Not Used	**L010**	**458**	**Dunnage Description**	**O**	**AN 2/25**
			Material used to protect lading		
Not Used	**L011**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Code specifying the weight unit		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**L012**	**56**	**Type of Service Code**	**O**	**ID 2/2**
			Code specifying extent of transportation service requested		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**L013**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
Not Used	**L014**	**211**	**Packaging Form Code**	**O**	**ID 3/3**
			Code for packaging form of the lading quantity		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	**L015**	**1073**	**Yes/No Condition or Response Code**	**X**	**ID 1/1**
			Code indicating a Yes or No condition or response		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:	**L1** Rate and Charges				
Position:	150				
Loop:	L0 Optional				
Level:	Detail				
Usage:	Optional				
Max Use:	20				
Purpose:	To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements				

Syntax Notes:
1 If either L102 or L103 is present, then the other is required.
2 At least one of L104 L105 or L106 is required.
3 If either L114 or L115 is present, then the other is required.
4 If either L117 or L118 is present, then the other is required.

Semantic Notes:
1 L119 is the percent used to determine the charge in L104.
2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3 L121 is the origin rated as charge amount.

Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Not Used	L101	213	**Lading Line Item Number**	O	N0 1/3
			Sequential line number for a lading item		
Not Used	L102	60	**Freight Rate**	X	R 1/9
			Rate that applies to the specific commodity		
Not Used	L103	122	**Rate/Value Qualifier**	X	ID 2/2
			Code qualifying how to extend charges or interpret value		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Must Use	L104	58	**Charge**	X	N2 1/12
			For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified		
Not Used	L105	191	**Advances**	X	N2 1/9
			Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified		
Not Used	L106	117	**Prepaid Amount**	X	N2 1/9
			Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified		
Not Used	L107	120	**Rate Combination Point Code**	O	AN 3/9
			The code denoting the connecting station for a joint rate obtained by combining two or more published rates which are used for the calculation of transportation charges		

Refer to 004010 Data Element Dictionary for acceptable code values.

Must Use	**L108**	**150**	**Special Charge or Allowance Code**	**O**	**ID 3/3**

Code identifying type of special charge or allowance

   ZZZ   Mutually Defined

Not Used	**L109**	**121**	**Rate Class Code**	**O**	**ID 1/3**

Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L110**	**39**	**Entitlement Code**	**O**	**ID 1/1**

Code identifying entitlement party

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L111**	**16**	**Charge Method of Payment**	**O**	**ID 1/1**

Code defining method of payment

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L112**	**276**	**Special Charge Description**	**O**	**AN 2/25**

Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150

Not Used	**L113**	**257**	**Tariff Application Code**	**O**	**ID 1/1**

Code indicating to which traffic a tariff applies

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L114**	**74**	**Declared Value**	**X**	**N2 2/12**

Monetary assigned value expressed in the standard monetary denomination for the currency specified

Not Used	**L115**	**122**	**Rate/Value Qualifier**	**X**	**ID 2/2**

Code qualifying how to extend charges or interpret value

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L116**	**372**	**Lading Liability Code**	**O**	**ID 1/1**

Code identifying limits of liability

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L117**	**220**	**Billed/Rated-as Quantity**	**X**	**R 1/11**

Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81

Not Used	**L118**	**221**	**Billed/Rated-as Qualifier**	**X**	**ID 2/2**

Code identifying the type of quantity or value on which the rate or item pricing is based

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	**L119**	**954**	**Percent**	**O**	**R 1/10**

Percentage expressed as a decimal

Not Used	**L120**	**100**	**Currency Code**	**O**	**ID 3/3**

Code (Standard ISO) for country in whose currency the charges are specified

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **L121**   **610**   **Amount**   **O N2 1/15**

Monetary amount

Segment:	**MEA** Measurements	
Position:	160	
Loop:	L0	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	10	
Purpose:	To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)	
Syntax Notes:	1	At least one of MEA03 MEA05 MEA06 or MEA08 is required.
	2	If MEA05 is present, then MEA04 is required.
	3	If MEA06 is present, then MEA04 is required.
	4	If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
	5	Only one of MEA08 or MEA03 may be present.
Semantic Notes:	1	MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:	1	When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	MEA01	737	**Measurement Reference ID Code**	O	ID 2/2
			Code identifying the broad category to which a measurement applies		
			PA	Pallet Dimensions	
			PK	Package Dimensions	
Must Use	MEA02	738	**Measurement Qualifier**	O	ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies		
			HT	Height	
			LN	Length	
			WD	Width	
Must Use	MEA03	739	**Measurement Value**	X	R 1/20
			The value of the measurement		
Must Use	MEA04	C001	**Composite Unit of Measure**	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	C00101	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			IN	Inch	
Not Used	C00102	1018	**Exponent**	O	R 1/15
			Power to which a unit is raised		
Not Used	C00103	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00104	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00105	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00106	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00107	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00108	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00109	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00110	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00111	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00112	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	C00113	355	**Unit or Basis for Measurement Code**	O	ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	C00114	1018	**Exponent**	O	R 1/15

Power to which a unit is raised

Not Used	C00115	649	**Multiplier**	O	R 1/10

Value to be used as a multiplier to obtain a new value

Not Used	MEA05	740	**Range Minimum**	X	R 1/20

The value specifying the minimum of the measurement range

Not Used	MEA06	741	**Range Maximum**	X	R 1/20

The value specifying the maximum of the measurement range

Not Used	MEA07	935	**Measurement Significance Code**	O	ID 2/2

Code used to benchmark, qualify or further define a measurement value

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	MEA08	936	**Measurement Attribute Code**	X	ID 2/2

        Code used to express an attribute response when a numeric measurement value cannot be determined

        Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   MEA09   752   Surface/Layer/Position Code   O   ID 2/2

        Code indicating the product surface, layer or position that is being described

        Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   MEA10   1373   Measurement Method or Device   O   ID 2/4

        The method or device used to record the measurement

        Refer to 004010 Data Element Dictionary for acceptable code values.

	Segment:	**LH1** Hazardous Identification Information
	Position:	170
	Loop:	LH1 Optional
	Level:	Detail
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify the hazardous commodity identification reference number and quantity
	Syntax Notes:	
	Semantic Notes:	
	Comments:	1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
		2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
		3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	LH101	355	**Unit or Basis for Measurement Code**	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			ZZ Mutually Defined	
M	LH102	80	**Lading Quantity**	M N0 1/7
			Number of units (pieces) of the lading commodity	
Must Use	LH103	277	**UN/NA Identification Code**	O ID 6/6
			Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	LH104	200	**Hazardous Materials Page**	O AN 1/6
			The United Nations page number as required for the international transport of hazardous materials	
Not Used	LH105	22	**Commodity Code**	O AN 1/30
			Code describing a commodity or group of commodities	
Not Used	LH106	355	**Unit or Basis for Measurement Code**	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Not Used	LH107	380	**Quantity**	O R 1/15
			Numeric value of quantity	
Not Used	LH108	595	**Compartment ID Code**	O ID 1/1

Code identifying the compartment in a compartmentalized tank car

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **LH109**   **665**   **Residue Indicator Code**   **O   ID 1/1**

Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded

Refer to 004010 Data Element Dictionary for acceptable code values.

LH110   **254**   **Packing Group Code**   **O   ID 1/3**

Code indicating degree of danger in terms of Roman number I, II or III

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used   **LH111**   **1375**   **Interim Hazardous Material Regulatory Number**   **O   AN 1/5**

Identifies the current regulatory version number used for hazardous materials shipments

Segment:	**LH2** Hazardous Classification Information	
Position:	180	
Loop:	LH1 Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	4	
Purpose:	To specify the hazardous notation and endorsement information	

Syntax Notes:
1 If either LH206 or LH207 is present, then the other is required.
2 If either LH208 or LH209 is present, then the other is required.
3 If either LH210 or LH211 is present, then the other is required.

Semantic Notes:
1 LH206 and LH207 indicate the flashpoint temperature.
2 LH208 and LH209 indicate the control temperature.
3 LH210 and LH211 indicate the emergency temperature.

Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	LH201	215	**Hazardous Classification**	O ID 1/30

The hazardous classification corresponding to the shipping name of the hazardous commodity

Refer to 004010 Data Element Dictionary for acceptable code values.

Must Use	LH202	983	**Hazardous Class Qualifier**	O ID 1/1

Code qualifying hazardous class
P Primary
S Secondary

Not Used	LH203	218	**Hazardous Placard Notation**	O ID 14/40

The placard notation corresponding to the hazard class of the hazardous commodity

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	LH204	222	**Hazardous Endorsement**	O ID 4/25

The placard endorsement that is to be shown on the shipping papers for the hazardous commodity

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	LH205	759	**Reportable Quantity Code**	O ID 2/2

Code to identify presence of hazardous substance

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	LH206	355	**Unit or Basis for Measurement Code**	X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	LH207	408	**Temperature**	X R 1/4

Temperature

| Not Used | LH208 | 355 | **Unit or Basis for Measurement Code** | **X** | **ID 2/2** |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | LH209 | 408 | **Temperature** | **X** | **R 1/4** |

Temperature

| Not Used | LH210 | 355 | **Unit or Basis for Measurement Code** | **X** | **ID 2/2** |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

| Not Used | LH211 | 408 | **Temperature** | **X** | **R 1/4** |

Temperature

Segment:	**LH3** Hazardous Material Shipping Name
Position:	190
Loop:	LH1 Optional
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes:	1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes:	1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	LH301	224	**Hazardous Material Shipping Name**	X	AN 1/25
			The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49		
Must Use	LH302	984	**Hazardous Material Shipping Name Qualifier**	X	ID 1/1
			Qualifier indicating the source (regulatory) of the proper shipping name		

    C   Canadian Shipping Name

    D   Domestic (United States) Shipping Name

    I   International Shipping Name

	Ref. Des.	Data Element	Name	Attributes	
Not Used	LH303	985	**N.O.S. Indicator Code**	O	ID 3/3
			Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	LH304	1073	**Yes/No Condition or Response Code**	O	ID 1/1
			Code indicating a Yes or No condition or response		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment:	**N1** Name	
Position:	290	
Loop:	N1	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1	At least one of N102 or N103 is required.
	2	If either N103 or N104 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
	2	N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N101	98	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			CN Consignee		
Not Used	N102	93	**Name**	**X**	**AN 1/60**
			Free-form name		
	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			10 Department of Defense Activity Address Code (DODAAC)		
	N104	67	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
Not Used	N105	706	**Entity Relationship Code**	**O**	**ID 2/2**
			Code describing entity relationship		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
Not Used	N106	98	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

	Segment:	**L3** Total Weight and Charges
	Position:	010
	Loop:	
	Level:	Summary
	Usage:	Optional (Must Use)
	Max Use:	1
	Purpose:	To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items
	Syntax Notes:	1 If either L301 or L302 is present, then the other is required.
		2 If either L303 or L304 is present, then the other is required.
		3 If either L309 or L310 is present, then the other is required.
		4 If L312 is present, then L301 is required.
		5 If either L314 or L315 is present, then the other is required.
	Semantic Notes:	1 L305 is the total charges.
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	L301	81	**Weight**	X R 1/10

Numeric value of weight

[192] Total Actual Weight of Shipment (DG 900)
See Section 9.0 (DTEDI Air Freight Bill of Lading Implementation Convention) for instruction about calculating the greater of actual or dimensional (GAD) weight.

To find Section 9.0 on the web, go to http://www.lmi.org/dtedi/

[Instructions: At that web location, select the IC navigator button. Choose the 'ICs Completed' menu, select the Implementation Convention document, and page to Section 9.0. That document is available in PDF format.]

Must Use	L302	187	**Weight Qualifier**	X ID 1/2

Code defining the type of weight

G Gross Weight

Not Used	L303	60	**Freight Rate**	X R 1/9

Rate that applies to the specific commodity

Not Used	L304	122	**Rate/Value Qualifier**	X ID 2/2

Code qualifying how to extend charges or interpret value

Refer to 004010 Data Element Dictionary for acceptable code values.

	L305	58	**Charge**	O N2 1/12

For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified

Not Used	L306	191	**Advances**	O	N2 1/9

Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified

Not Used	L307	117	**Prepaid Amount**	O	N2 1/9

Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified

Not Used	L308	150	**Special Charge or Allowance Code**	O	ID 3/3

Code identifying type of special charge or allowance

Refer to 004010 Data Element Dictionary for acceptable code values.

	L309	183	**Volume**	X	R 1/8

Value of volumetric measure

	L310	184	**Volume Unit Qualifier**	X	ID 1/1

Code identifying the volume unit

    E   Cubic Feet

Not Used	L311	80	**Lading Quantity**	O	N0 1/7

Number of units (pieces) of the lading commodity

Not Used	L312	188	**Weight Unit Code**	O	ID 1/1

Code specifying the weight unit

Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used	L313	171	**Tariff Number**	O	AN 1/7

Standard tariff number for the tariff which governs the rates applied to the commodity item(s)

Not Used	L314	74	**Declared Value**	X	N2 2/12

Monetary assigned value expressed in the standard monetary denomination for the currency specified

Not Used	L315	122	**Rate/Value Qualifier**	X	ID 2/2

Code qualifying how to extend charges or interpret value

Refer to 004010 Data Element Dictionary for acceptable code values.

	Segment:	**SE** Transaction Set Trailer
	Position:	020
	Loop:	
	Level:	Summary
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
	Syntax Notes:	
	Semantic Notes:	
	Comments:	**1** SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SE01	96	**Number of Included Segments**	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	